

WHAT IS CLAIMED IS:

1. A coupling structure between a screw shaft for driving an injection screw driving body and a motor shaft of an electric motor in an injection device for converting a rotating movement of the screw shaft conducted by the electric motor into a linear movement of the injection screw driving body by screwing the screw shaft and a nut member positioned at the injection screw driving body with each other and injecting resin according to an advancing movement of the injection screw driving body, wherein, for performing coupling between the screw shaft and the motor shaft of the electric motor by engagement of splines with each other provided on the screw shaft and the motor shaft,

the spline for the motor shaft engaging with the spline on an outer periphery on a shaft end portion of the screw shaft is provided on an inner periphery of a bearing sleeve which is detachably mounted to the motor shaft by fitting the bearing sleeve into a recess formed inside a motor shaft end and fastening a flange integrally formed on an outer periphery of the bearing sleeve to an end face of the motor shaft with a bolt.

2. The coupling structure between the screw shaft and the motor shaft in the injection device according to claim 1, wherein the bearing sleeve has an annular groove at the inner periphery of an opening for the side of the screw shaft, and a ring member for air-tightly sealing a clearance formed between the screw shaft and the bearing sleeve is fitted into the annular groove.